1-25. (cancelled)

- 26. (new) An automated method for preventing mechanical stress to a discharge vessel of a
- discharge lamp, the method comprising using a control device to effectuate operations in a lamp,
- 3 the operations comprising:
- receiving an actuation indication for switching on or switching off of the lamp; and
- responsive to the actuation indication, providing control signals to coordinate cooling and
- 6 power to the lamp, the control signals specifying:
- o at least one intermediate value for the cooling or the power to the lamp or both, which intermediate value is between full on and full off;
- o at least one timing relative to the actuation indication and associated with the intermediate value; and
- o parameters for turning the cooling and power to the lamp full on or full off, in accordance with whether the lamp is to be switched on or off, respectively.
- 1 27. (new) The method of claim 26, wherein during a time interval subsequent to the actuation
- 2 indication, the control signals specify
- 3 a first plurality of stepwise intermediate values for cooling between full on and full off; and
- a second plurality of stepwise intermediate values for lamp driver power between full on and
- 5 full off.

- 1 28. (new) The method of claim 27, wherein the control signals further specify a plurality of
- timings relative to the actuation indication, each timing being associated with at least one of the
- first and second plurality of stepwise intermediate values.
- 29. (new) A control unit for controlling a lamp driver and a cooling device for a discharge lamp,
- the control unit effectuating operations comprising:
- receiving an actuation indication for switching on or switching off of the lamp; and
- responsive to the actuation indication, providing control signals to coordinate cooling and
- 5 power to the lamp, the control signals specifying:
- o at least one intermediate value for the cooling or the power to the lamp or both, which
- 7 intermediate value is between full on and full off;
- 8 o at least one timing relative to the actuation indication and associated with the
- 9 intermediate value; and
- o parameters for turning the cooling and power to the lamp full on or full off, in accordance
- with whether the lamp is to be switched on or off, respectively.
- 30. (new) A control unit as claimed in claim 29, comprising a microprocessor unit and a memory
- for storing at least one switching schedule according to which the power to a lamp and power to
- a cooling device are alternately and/or stepwise increased or decreased, in accordance with
- whether the lamp is to be switched on or off, respectively.
- 1 31. (new) A control unit as claimed in claim 29, which is provided for
- 2 adjusting power of a cooling device as a function of the current supplied instantaneously to

- the lamp or as a function of power of a lamp driver, and/or
- adjusting lamp control parameters as a function of the instantaneous power of the cooling
- 5 device.
- 32. (new) A control unit as claimed in claim 29, wherein the operations comprise reducing power
- of the lamp and power of a cooling device stepwise, until the lamp is switching off responsive to
- 3 controlled power reduction without cooling.
- 1 33. (new) A control unit as claimed in claim 29,
- 2 comprising
- a first input for detecting a parameter of a cooling device, which cooling device acts on the
- 4 lamp, and
- 5 a second input for detecting a lamp driver control parameter, and
- 6 wherein the control signals are to the cooling device and a lamp driver and are adjusted
- 7 responsive to signals detected at the first and second inputs in such a way that there is no
- 8 excursion from a predetermined range of the lamp temperature during a time interval after the
- 9 actuation indication.
- 34. (new) The control unit of claim 29, wherein a lamp driver is incorporated in the control unit.
- 35. (new) A lamp driver for driving a discharge lamp and a cooling device for the discharge
- lamp, which lamp driver comprises a control unit according to claim 29.

- 36. (new) An assembly comprising the control unit of claim 29 and a lamp driver, the lamp
- driver being internal or external to the control unit and comprising a trigger circuit for operating
- the discharge lamp, wherein the control unit controls the trigger circuit and a cooling device via a
- 4 first and a second output, respectively.
- 1 37. (New) An assembly as claimed in claim 36, wherein the control unit detects the lamp current
- and/or the lamp voltage and/or the lamp power via the trigger circuit, which is connected with
- the second input of the control unit.
- 1 38. (new) A lighting unit comprising a discharge lamp, the assembly of claim 36; and the cooling
- device.
- 39. (new) A lighting unit as claimed in claim 38, comprising a first sensor for detecting a cooling
- power of the cooling device, which cooling power acts on the lamp, and/or a second sensor for
- detecting a lamp temperature, wherein the control unit is provided for controlling the lamp driver
- and the cooling device by means of a signal of the first and/or the second sensor in such a way
- that there is no excursion from a predetermined range of the lamp temperature during a timing
- 6 interval subsequent to the actuation indication.
- 40. (new) A lighting unit as claimed in claim 39, wherein the first sensor is provided for
- detecting a property of a gas stream leaving a nozzle of the cooling device and being directed
- onto the discharge lamp.

- 41. (new) The lighting unit of claim 40, wherein the property is pressure, volume or velocity.
- 42. (new) A lighting unit as claimed in claim 39, wherein the second sensor is arranged on the
- discharge vessel of the lamp for detecting the temperature of the wall of the discharge vessel.
- 43. (new) A projection system comprising a lighting unit according to claim 38.